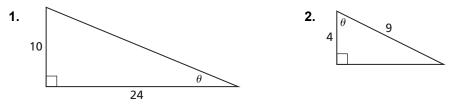
## 8.1 Practice B

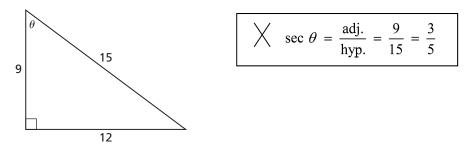
In Exercises 1 and 2, evaluate the six trigonometric functions of the angle  $\theta$ .



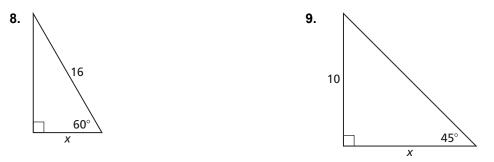
**3.** Evaluate the six trigonometric functions of the angle  $90^\circ - \theta$  in Exercise 1. Describe the relationships you notice.

In Exercises 4–6, let  $\theta$  be an acute angle of a right triangle. Evaluate the other five trigonometric functions of  $\theta$ .

- **4.**  $\cos \theta = \frac{5}{11}$  **5.**  $\cot \theta = \frac{7}{8}$  **6.**  $\sec \theta = \frac{11}{9}$
- 7. Describe and correct the error in finding  $\csc \theta$  of the triangle below.



In Exercises 8 and 9, find the value of x for the right triangle.



**10.** A cable is attached to the top of a pole and mounted to the ground 3 feet from the base of the pole. The angle of elevation from the mounting to the top of the pole is 78°. Estimate the height of the pole. Round your answer to the nearest tenth.